

Table C-8. Scientific and Common Names of Fish Collected or Known To Occur in the Savannah River Near the SRP (continued)

Order	Family	Species	Common Name
Perciformes	Centrarchidae (cont.)	<u>Lepomis macrochirus</u>	Bluegill
		<u>Lepomis marginatus</u>	Dollar sunfish
		<u>Lepomis microlophus</u>	Redear sunfish
		<u>Lepomis punctatus</u>	Spotted sunfish
		<u>Micropterus salmoides</u>	Largemouth bass
		<u>Micropterus coosae</u>	Redeye bass
		<u>Pomoxis annularis</u>	White crappie
		<u>Pomoxis nigromaculatus</u>	Black crappie
	Percidae	<u>Etheostoma fricksium</u>	Savannah darter
		<u>Etheostoma fusiforme</u>	Swamp darter
		<u>Etheostoma hopkinsi</u>	Christmas darter
		<u>Etheostoma inscriptum</u>	Turquoise darter
		<u>Etheostoma olmstedii</u>	Tessellated darter
		<u>Etheostoma serriferum</u>	Sawcheeker darter
		<u>Perca flavescens</u>	Yellow perch
		<u>Percina nigrofasciata</u>	Blackbanded darter
		<u>Percina caprodes</u>	Logperch
	Mugilidae	<u>Mugil cephalus</u>	Striped mullet
	Agonidae	<u>Agonostomos monticola</u>	Mountain mullet
	Gobiidae	<u>Awaous tajasica</u>	River goby
Pleuronectiformes	Soleidae	<u>Trinectes maculatus</u>	Hogchoker

a. Source: DOE, 1987.

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Table C-9. Percent Composition of Abundant<sup>a</sup> Fish Species<sup>b</sup> Collected in the Savannah River and SRP Intake Canals, 1982-85<sup>c</sup>

Taxa	Savannah River		Intake Canals	
	Electro- Fishing Percent	Hoop Netting Percent	Electro- Fishing Percent	Hoop Netting Percent
Flier	0.30	1.21	0.09	1.55
Redbreast sunfish	26.73	7.09	10.04	12.69
Bluegill	8.44	4.32	24.07	19.95
Spotted sunfish	5.22	0.86	1.83	1.55
Warmouth	1.25	1.04	0.85	0.26
Pumpkinseed	0.17	0.35	2.30	1.04
Redear sunfish	1.63	0.95	4.13	1.81
Dollar sunfish	2.74	0.00	8.38	0.26
Bluespotted sunfish	0.98	0.00	2.34	0.00
Largemouth bass	7.69	0.00	6.04	0.00
Black crappie	2.07	4.75	0.89	27.20
Yellow perch	1.08	0.00	6.47	0.78
Bowfin	3.83	1.04	1.91	1.04
Blueback herring	1.73	0.17	0.51	0.00
American shad	1.25	0.26	0.00	0.00
Gizzard shad	2.44	0.86	2.76	2.59
Threadfin shad	1.96	0.00	0.94	0.00
Spotted sucker	11.21	0.78	5.23	3.37
Lined topminnow	0.00	0.00	1.20	0.00
Pirate perch	1.49	0.00	0.47	0.00
Chain pickerel	3.29	0.00	10.97	0.26
Grass pickerel	1.08	0.00	1.70	0.00
Longnose gar	0.81	2.51	0.26	0.52
White catfish	0.07	8.47	0.00	0.26
Flat bullhead	0.24	31.98	0.04	11.92
Brown bullhead	0.00	1.47	0.00	0.00
Channel catfish	0.41	24.29	0.09	8.55
Brook silverside	1.29	0.00	0.94	0.00
Striped mullet	1.42	0.00	2.00	0.00
American eel	3.32	3.11	0.13	2.33
Other species	5.86	4.49	3.42	2.07

- a. Species comprising greater than one percent of collections for either sampling method or location.
- b. Scientific and common names of Savannah River fish species are presented in Table C-8.
- c. Source: DOE, 1987.

Table C-10. Fish Species<sup>a</sup> Collected in Low Abundance<sup>b</sup> in the Savannah River or SRP Intake Canals, 1982-85<sup>c</sup>

Mud sunfish	Eastern silvery minnow
Redeye bass	Ochoopee shiner
White crappie	Notropis spp.
Striped bass	Unidentified minnow
White bass	Golden shiner
Hybrid bass	Hogchoker
Tesselated darter	Redfin pickerel
Logperch	Esox spp.
Blackbanded darter	Spotted gar
Lake chubsucker	Florida gar
Chubsucker	Snail bullhead
Highfin carpsucker	Speckled madtom
Silver redhorse	Eastern mudminnow
Quillback carpsucker	Mosquitofish

- Scientific and common names of Savannah River fish species are presented in Table C-8.
- Less than one percent of collections for any sampling method or location identified in Table C-9.
- Source: DOE, 1987.

August 1983, and are based on studies conducted by Environmental and Chemical Sciences, Inc., under contract to E. I. du Pont de Nemours and Company (Paller et al., 1984).

Researchers collected nearly 10,000 adult fish representing 66 species in the river, the intake canals, and the lower reaches of the major SRP creeks during the sampling period.

The electrofishing collections (Table C-11) indicated that sunfishes, especially redbreast, were the most abundant small species (except minnows), while bowfin and spotted sucker were among the most abundant large species during most or all of the year. Flat bullhead and channel catfish were important species, as indicated by hoop net collections, comprising 32 to 63 percent of the catch. Largemouth bass never comprised less than 7.9 percent of the electrofishing samples during any collection period. Other important species were American eel, white catfish, longnose gar, striped mullet, silver redhorse, chain pickerel, and quillback carpsucker.

Species composition varied due to seasonal changes in fish movement and activity (e.g., spawning). The most conspicuous change was a decrease in the relative abundance of sunfish during January (Table C-11). Bowfin, spotted sucker, flat bullhead, and channel catfish were more abundant during January. The greatest number of species was captured during May (37), possibly because of migratory movements or seasonal changes in activity related to spawning. Recruitment of young of the year might have increased the relative abundance of some species during August.

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Table C-11. Percent Composition by Number and Weight of Fishes Collected Quantitatively by Electrofishing in the Savannah River and Creek Mouths, October 1982 - August 1983<sup>a</sup>

Taxa	1982		1983					
	October		January		May		August	
	No.	Wt.	No.	Wt.	No.	Wt.	No.	Wt.
Bowfin	13.6	53.3	15.1	37.9	2.4	20.6	4.8	36.4
American eel	3.6	1.3	0.3	0.3	1.2	1.4	2.4	1.7
Blueback herring	2.4	0.1	0.0	0.0	0.3	0.2	0.0	0.0
American shad	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1
Gizzard shad	1.9	1.6	4.5	1.6	2.1	1.7	1.5	1.7
Threadfin shad	0.0	0.0	2.3	0.1	3.3	0.5	0.8	0.0
Quillback carpsucker	0.0	0.0	0.0	0.0	0.3	9.2	0.3	7.0
Spotted sucker	13.5	26.5	22.7	32.0	6.9	26.0	5.3	18.7
Silver redhorse	0.9	2.2	1.4	2.3	2.1	9.6	1.0	4.2
Unidentified redhorse	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Golden shiner	0.0	0.0	0.3	0.1	0.5	0.1	0.4	0.0
Flier	0.0	0.0	0.9	0.1	0.3	0.1	0.0	0.0
Bluespotted sunfish	0.0	0.0	0.0	0.0	5.7	0.1	0.7	0.0
Redbreast sunfish	22.4	1.9	7.1	0.5	13.9	4.0	22.7	4.1
Pumpkinseed	0.0	0.0	0.3	0.1	0.6	0.1	1.8	0.2
Warmouth	1.2	0.1	0.0	0.0	1.8	0.4	1.2	0.2
Bluegill	11.2	0.5	2.6	0.2	5.5	1.0	9.0	1.2
Dollar sunfish	1.4	0.0	0.0	0.0	4.8	0.2	7.3	0.3
Redear sunfish	3.3	0.8	7.7	2.4	3.6	1.9	2.7	1.9
Spotted sunfish	7.1	0.9	4.8	0.2	9.3	1.3	9.3	1.2
Largemouth bass	7.9	4.0	8.5	3.9	9.8	7.8	9.0	4.9
White crappie	0.7	0.1	0.3	0.1	0.1	0.1	0.0	0.0
Black crappie	0.7	0.1	3.7	0.7	2.0	0.6	1.1	0.5
Striped mullet	1.5	1.5	1.1	0.4	2.4	4.3	6.7	9.3
White bass	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Striped bass	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Yellow perch	2.0	0.4	2.0	0.2	2.7	0.9	2.1	0.6
Pirate perch	0.9	0.1	0.0	0.0	0.9	0.1	2.1	0.0
Redfin pickerel	0.7	0.1	5.4	0.1	3.4	0.2	1.6	0.1
Chain pickerel	1.3	0.2	3.4	1.2	11.2	2.1	3.7	1.7
Mudminnow	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Longnose gar	0.5	0.4	4.0	2.8	1.7	3.8	0.9	1.1
Florida gar	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0
White catfish	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Brown bullhead	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
Flat bullhead	0.0	0.0	0.3	0.1	0.2	0.1	0.1	0.2
Channel catfish	0.2	0.8	0.0	0.0	0.3	0.6	1.1	2.4
Carp	0.3	3.2	1.4	13.1	0.0	0.0	0.0	0.0
Hogchoker	0.8	0.1	0.0	0.0	0.1	0.1	0.2	0.1
Total percent	100.0	99.9	100.1	99.9	99.9	100.0	99.8	99.7
Total number	1628		352		2365		2175	
Total wt. (kg)		670.1		248.1		468.2		505.8

a. Source: Du Pont, 1985.